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PATENT SPECIFICATION



Application Date : Dec. 4, 1926. No. 30,803 / 26.

270,587

Complete Accepted : May 12, 1927.

COMPLETE SPECIFICATION.

Improvements relating to Vices or the like.

I, BAPTISTE BOYER, of 19, rue Bancel, Lyon, France, a French citizen, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to a vice of the type comprising a fixed jaw (i.e. fixed, considered from the point of view of longitudinal movement) which is mounted for swivelling movement, so that the vice can hold tapered work or work of irregular contour securely.

According to the present invention, I provide a vice of the type referred to wherein the fixed jaw is pivotally mounted in a hollow frame in which the movable jaw is also slidably guided, one end wall of the recess, or interior of the frame being semi-circular in shape so as to provide a bearing for part of the fixed jaw which extends into said frame.

In the annexed drawing, Figs. 1, 2, and 3 show, by way of example, an elevational side view, end view, and a top plan view of one form of vice, while Fig. 4 is a fragmentary vertical section on the line *x y* in Fig. 2, and shows the screw in the bearing of the swivel jaw. Fig. 5 shows a modification having four jaws.

The vice illustrated in Figs. 1, 2 and 3, comprises a frame, wherein slides a moving jaw *b* of conventional design, which is moved backward and forward by a screw *v* passing through a clamp *c*. The latter has a semi-circular end *c¹* bearing in the rear part of the frame *a*. A cone shaped clearance *f* shown on Fig. 4, allows the jaw to swivel. The members *d* are angled base plates by means of which the vice is fixed on to a bench.

When a non-parallel piece of work is inserted in the vice, the clamp *c* swivels on its bearing and is pressed, by the screw *v*, against the inclined line of the work as shown in Fig. 5. The latter also

shows a double swivel jaw, one of which *c* is pressed against the jaw *b*, while the jaw *k* works in conjunction with the other swivelling jaw *l*. The jaws *k* and *l* are provided with clearances in order to hold profiled work.

A vice arranged in the above described manner is very useful on work where great power of clamping is required, as is the case on machine-tools. Furthermore, the device is simple in construction and no more costly to manufacture than an ordinary vice.

It will be understood that the constructions shown in the drawings may be altered in different ways to suit the purpose of the invention.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

1. A vice of the type referred to wherein the fixed jaw is pivotally mounted in a hollow frame in which the movable jaw is also slidably guided, one end wall of the recess or interior of the frame being semi-circular in shape so as to provide a bearing for part of the fixed jaw which extends into said frame.

2. A modification of the vice claimed in Claim 1, wherein both ends of the recess or interior of the frame are made semi-circular in shape and a movable jaw is provided between two swivelling clamps one arranged at each end of the frame.

3. A vice of the type referred to, substantially as described with reference to Figs. 1 to 4, or Fig. 5 of the annexed sheet of drawings.

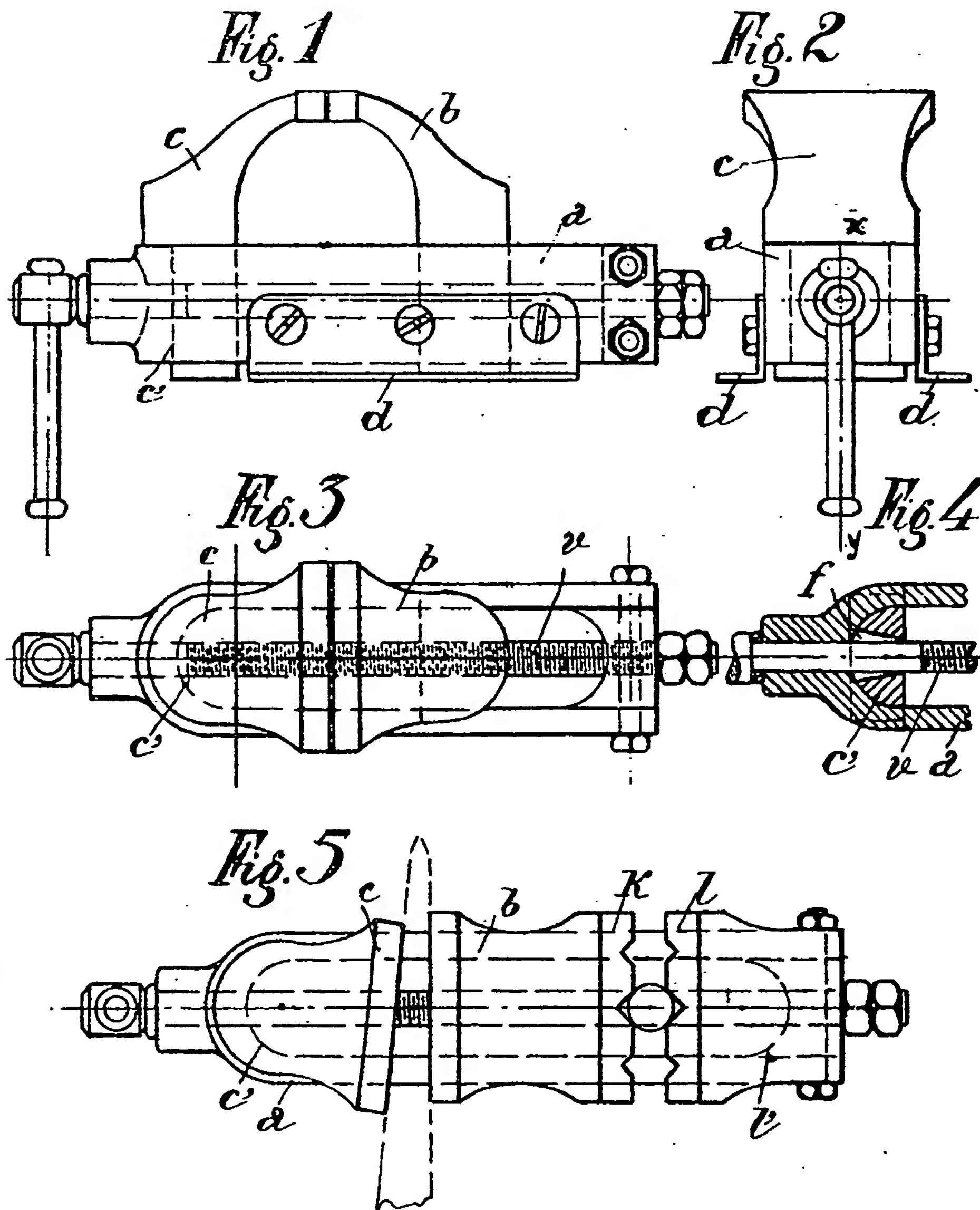
Dated the 4th day of December, 1926.

For the Applicant,
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[This Drawing is a reproduction of the Original on a reduced scale.]



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